



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D1038-58B
Job Sheet 211270



Part No: D1038-58B

Job Qty: 40 pcs

Part Name: Avionics Fastener Rail



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 7/9/20

Job Tracking No:

Due Date: 7/30/20

Created By: Marie Lajeunesse

Type: Stock

Description: SIOP

Note: DWG REV B IPP: E 03.05.02 Reformat; Added label KJ/RF IPP Rev:F 06-08-16 Updated Packaging
Procedures JLM IPP Rev:G 08-09-16 Added Folio # JLM Verified by:EC

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	Bandsaw - 1	40 pcs			0.00	0.62	Bandsaw - 1		J.C.L. 20-07-31
120	HAAS 4 Axis - B4B	40 pcs			1.00	6.60	HAAS - 1 - B4B		
							HAAS - 2 - B4B		
							HAAS - 3 - B4B		J.C.L. 20-07-31
							HAAS - 4 - B4B		
130	QC 2	40 pcs			0.00	0.00	QC 2 - 1		
							QC 2 - 12		
							QC 2 - 14		
							QC 2 - 17		
							QC 2 - 19		
							QC 2 - 2		
							QC 2 - 20		
							QC 2 - 22		
							QC 2 - 23		
							QC 2 - 25		
							QC 2 - 32		J.C.L. 20-07-31
							QC 2 - 33		
							QC 2 - 35		
							QC 2 - 39		
							QC 2 - 4		
							QC 2 - 40		
							QC 2 - 44		
							QC 2 - 45		
							QC 2 - 48		
							QC 2 - 49		
							QC 2 - 50		
							QC 2 - 51		
							QC 2 - 52		
							QC 2 - 57		
							QC 2 - 62		



Dart Aerospace Ltd.
1270 Aberdeen Street
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CANADA
TEL.: 1 613 632-5200
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www.dartaerospace.com

Container No: S291260



Part: D1038-58B

Job No: 211270

Serial No/Batch: S291260

Revision: Rev B

Inspector:

Exp Date:

Instructions: Various STC's

Date: 07/31/20

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F6 120A

140 QC 8	40 pcs	0.00 0.00	QC 2 - 63	
			QC 2 - 8	
			QC 2 - 66	
			QC 2 - 64	
			QC 2 - 65	
			QC 2 - 5	
			QC 2 - 71	
			QC 2 - 73	
			QC 2 - 69	
			QC 2 - 76	
			QC 2 - 86	
			QC 2 - 83	
			QC 8 - 12	
			QC 8 - 14	
			QC 8 - 17	
			QC 8 - 20	
			QC 8 - 25	
			QC 8 - 3	
			QC 8 - 32	
			QC 8 - 33	
			QC 8 - 35	
150 Small Fab - 2 - B4B	40 pcs	0.00 9.80	QC 8 - 39	
			QC 8 - 4	
			QC 8 - 44	
			QC 8 - 45	
			QC 8 - 49	
			QC 8 - 58	
			QC 8 - 8	
			QC 8 - 9	
			QC 8 - 68	
			QC 8 - 67	
			QC 8 - 1 (A)	
			QC 8 - 47	
			QC 8 - 40	
			QC 8 - 52	
			QC 8 - 23	
			QC 8 - 57	
			QC 8 - 76	
			QC 8 - 61	
			QC 8 - 66	
			QC 8 - 73	
			QC 8 - 82	
150 Small Fab - 2 - B4B	40 pcs	0.00 9.80	Small Fab - 1 - B4B	
			Small Fab - 2 - B4B	
			Small Fab - 3 - B4B	
			Small Fab - 4 - B4B	
			Small Fab - 5 - B4B	
			Small Fab - 6 - B4B	
			Small Fab - 7 - B4B	
			Small Fab - 8 - B4B	
			Small Fab - 9 - B4B	
			Small Fab - Various 1 - B4B	
160 QC 5	40 pcs	0.00 0.00	QC 5 - 10	
			QC 5 - 12	
			QC 5 - 17	
			QC 5 - 18	
			QC 5 - 19	
			QC 5 - 22	

DAS
52
9-89

29/08/02

DAS
58
9-89

SEP 12 2020

			QC 5 - 24	
			QC 5 - 3	
			QC 5 - 43	
			QC 5 - 49	
			QC 5 - 51	
			QC 5 - 58	
			QC 5 - 68	
			QC 5 - 9	
			QC 5 - 50	
			QC 5 - 30	DAS
			QC 5 - 40	32
			QC 5 - 61	9-89
			QC 5 - 81	
			QC 5 - 82	SEP 03 2020
165 Handfinish - 2-1 Pressure-B4B	40 pcs	0.00 3.33	Handfinish - 2 - 1 - B4B	
			Handfinish - 2 - 2 - B4B	
			Handfinish - 2 - 3 - B4B	
			Handfinish - 2 - 4 - B4B	
170 Outsource - 4 - Anodize	40 pcs		ATG001-VC	8
180 Packaging 2-1 - Receive - B4B	40 pcs	0.00 0.00	Packaging 2 - 1 - B4B	
			Packaging 2 - 2 - B4B	
			Packaging 2 - 3 - B4B	
			Packaging 2 - 5 - B4B	
			Packaging 2 - 4 - B4B	
			Packaging 2 - 6 - B4B	
			Packaging 2 - 7 - B4B	
			Packaging 2 - 8 - B4B	
			Packaging 2 - 9 - B4B	
			Packaging 2 - 10 - B4B	
			Packaging 2 - 11 - B4B	
			Packaging 2 - 12 - B4B	
			Packaging 2 - 13 - B4B	
			Packaging 2 - 14 - B4B	
			Packaging 2 - 15 - B4B	
			Packaging 2 - 16 - B4B	
			Packaging 2 - 17 - B4B	
			Packaging 2 - 18 - B4B	
			Packaging 2 - 19 - B4B	
			Packaging 2 - 20 - B4B	
			Packaging 2 - 21 - B4B	
			Packaging 2 - 22 - B4B	
			Packaging 2 - 23 - B4B	
			Packaging 2 - 24 - B4B	
			Packaging 2 - 25 - B4B	
			Packaging 2 - 26 - B4B	
			Packaging 2 - 27 - B4B	
			Packaging 2 - 28 - B4B	
			Packaging 2 - 29 - B4B	
			Packaging 2 - 30 - B4B	
			Packaging 2 - 31 - B4B	
			Packaging 2 - 32 - B4B	
			Packaging 2 - 33 - B4B	
			Packaging 2 - 34 - B4B	
			Packaging 2 - 35 - B4B	
			Packaging 2 - 36 - B4B	
			Packaging 2 - 37 - B4B	
190 QC 6	40 pcs	0.00 0.00	QC 6 - 9	
			QC 6 - 68	

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			QC 6 - 61	
			QC 6 - 40	DAS
			QC 6 - 81	81
			QC 6 - 82	9-89
200 Small Fab - 2 - B4B	40 pcs	0.00 7.20	Small Fab - 1 - B4B	
			Small Fab - 2 - B4B	
			Small Fab - 3 - B4B	
			Small Fab - 4 - B4B	SEP 30 2020
			Small Fab - 5 - B4B	
			Small Fab - 6 - B4B	
			Small Fab - 7 - B4B	
			Small Fab - 8 - B4B	
			Small Fab - 9 - B4B	
			Small Fab - Various 1 - B4B	
210 QC 5	40 pcs	0.00 0.00	QC 5 - 10	
			QC 5 - 12	
			QC 5 - 17	
			QC 5 - 18	
			QC 5 - 19	
			QC 5 - 22	
			QC 5 - 24	
			QC 5 - 3	
			QC 5 - 43	
			QC 5 - 49	
			QC 5 - 51	
			QC 5 - 58	
			QC 5 - 68	
			QC 5 - 9	
			QC 5 - 50	
			QC 5 - 30	
			QC 5 - 40	
			QC 5 - 61	
			QC 5 - 81	
			QC 5 - 82	
220 Packaging 3-1 - Stock - B4B	40 pcs	0.00 0.00	Packaging 3 - 1 - B4B	
			Packaging 3 - 2 - B4B	
			Packaging 3 - 3 - B4B	
			Packaging 3 - 4 - B4B	
			Packaging 3 - 5 - B4B	
			Packaging 3 - 6 - B4B	
			Packaging 3 - 7 - B4B	
			Packaging 3 - 8 - B4B	
			Packaging 3 - 9 - B4B	
			Packaging 3 - 10 - B4B	
			Packaging 3 - 11 - B4B	
			Packaging 3 - 12 - B4B	
			Packaging 3 - 13 - B4B	
			Packaging 3 - 14 - B4B	
			Packaging 3 - 15 - B4B	
			Packaging 3 - 16 - B4B	
			Packaging 3 - 17 - B4B	
			Packaging 3 - 18 - B4B	
			Packaging 3 - 19 - B4B	
			Packaging 3 - 20 - B4B	
			Packaging 3 - 21 - B4B	
			Packaging 3 - 22 - B4B	
			Packaging 3 - 23 - B4B	
			Packaging 3 - 24 - B4B	

			Packaging 3 - 25 - B4B	
			Packaging 3 - 26 - B4B	
			Packaging 3 - 27 - B4B	
			Packaging 3 - 28 - B4B	
			Packaging 3 - 29 - B4B	
			Packaging 3 - 30 - B4B	
			Packaging 3 - 31 - B4B	
			Packaging 3 - 32 - B4B	
			Packaging 3 - 33 - B4B	
			Packaging 3 - 34 - B4B	
			Packaging 3 - 35 - B4B	
			Packaging 3 - 36 - B4B	
			Packaging 3 - 37 - B4B	
225 DC - 1 - B4B	40 pcs	0.00 0.00	DC - 1 - B4B	DAS
			DC - 2 - B4B	OCT 8 2020 77
230 QC 21 - FG	40 pcs	0.00 0.00	QC 21 - FG - 21	9-89
			QC 21 - FG - 70	
			Broussard	DAS
			QC 21 - FG - 9	77
			QC 21 - FG - 77	OCT 8 2020 9-89

Part Op 110 - Bandsaw - Cut extrusion D2023 to length 21.81" (+0.06/-0.00)

Descriptions: 120 - HAAS CNC Vertical Machine - 1- Mill as per Folio FA783 Rev: AA & Dwg D1038 Rev: B 2-Debur per dwg D1038

130 - QC2- Inspect parts off machine FAI/FAIB

140 - QC8- Inspect parts - second check

150 - Small Fab - Deburr

160 - QC5- Inspect part completeness to step on W/O

165 - Pressure Wash per QSI005 4.3/ Clean and remove all markings - Clean rail from all marking using acid etch and scotch brite before sending to get anodize

170 - Issue P/O: 47021 Black Anodize as per Dwg D1038 and QSI 017 4.1.10 Anodize per MIL-A-8625F Type I or IB or IC or II or IIB Class 2, Type III Class 2

180 - Receive & Inspect for Damage & Mat'l Certs

190 - QC6- All purchased or subcontracted products

200 - Small Fab - 1-Stake .050 stainless steel wire per Dwg D1038-58 using DT8389 Batch: _____ 2-Grind wire flush and deburr 3-Clean

210 - QC5- Inspect part completeness to step on W/O

220 - Identify as per dwg & Stock Location: _____ - 1-Pack each fastener rail into a cardboard tube 2-Roll Part in foam . 3-Install red cap at each end and secure with tape. 4-Apply white labels to cardboard tubes 5-Identify and Stock Location: FG120A

225 - Document Control - Create white labels and bag them

230 - QC21- Final Inspection - Work Order Release

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D2023	Extrusion, Fastener Rail	72.8400 ft (1.821 ea)	110-Bandsaw - 1	F140 800

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
110-Bandsaw - 1	D2023	73	3,696	0

Part Specifications

Specifications could not be found.

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Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

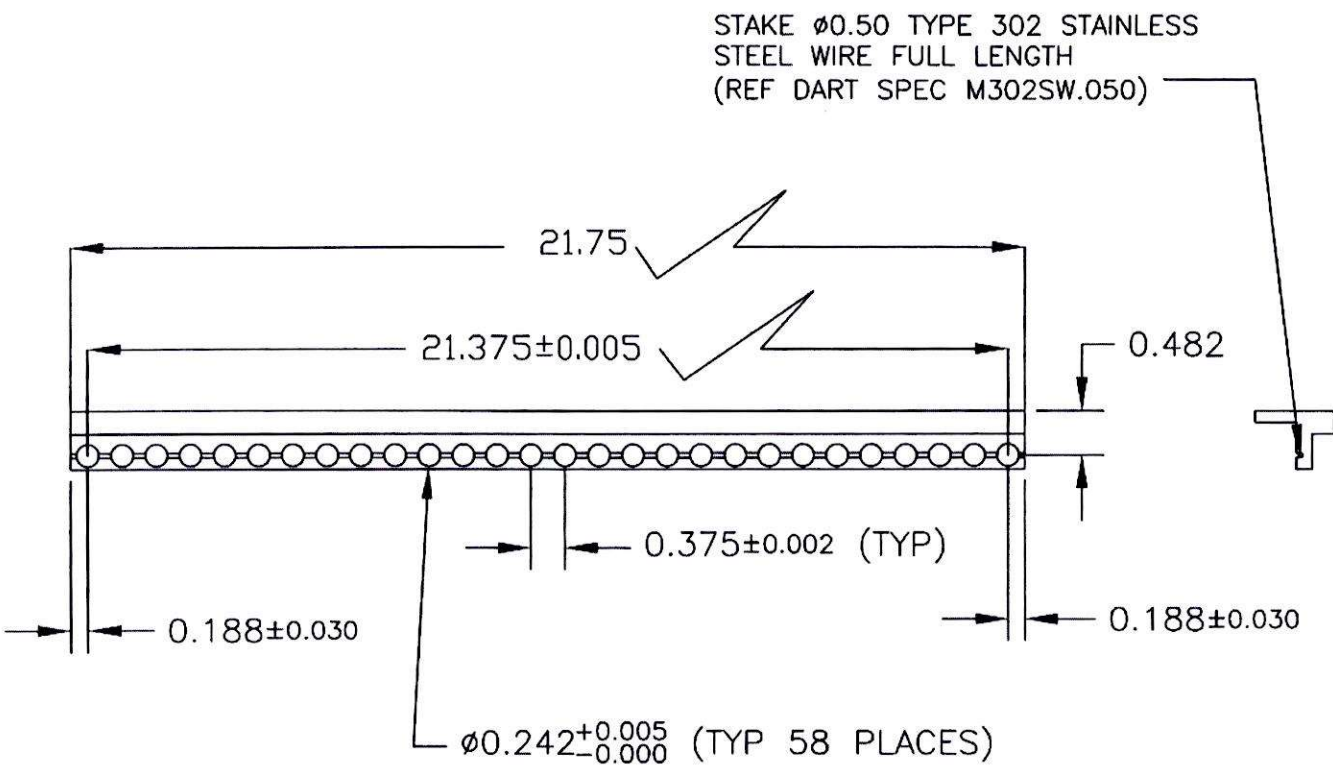
Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐ ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

DART**DART AEROSPACE LTD**
HAWKESBURY, ONTARIO, CANADA

RELEASED

05.03.31

DESIGN	DRAWN BY	DRAWING NO.	REV. B
04	04	D1038	SHEET 1 OF 1
CHECKED	APPROVED	TITLE	SCALE
05.02.02	05.02.02	1/4 TURN FASTENER RAIL	NTS
-	91.05.05	NEW ISSUE	
A	04.05.14	UPDATE TOLERANCE	
B	05.02.02	REDRAWN, UPDATE NOTES	

**D1038-58 1/4 TURN FASTENER RAIL**

- 1) MAKE FROM D2023 EXTRUSION
- 2) FINISH: D1038-58 - NONE
D1038-58B - ANODIZE BLACK PER DART QSI 017 4.1.10
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) ALL TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB047021



Supplier: ATG001-VC
A.T.G. Industries Inc
760 INDUSTRIELLE STREET
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB047021
PO Date: 9/3/20
Due Date: 9/18/20
Purchase Order Revision:
Revision Date:
Issued By: Guerin, Kimberley
Phone: 613-632-5200 Ext: 298
kguerin@dartaero.com
Via: Ground
Pynt Terms: Net 60
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Drawing	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	211270	D1038-58B	D1038 Rev B ✓	Avionics Fastener Rail : Various STC's Issue P/O: _____ Black Anodize as per Dwg D1038 and QSI 017 4.1.10 Anodize per MIL-A-8625F Type I or IB or IC or II or IIB Class 2, Type III Class 2	Firmed - X40	-	9/18/20	40 pcs	0 pcs	40 pcs	\$4.89/pcs	\$195.60
2	212428	649.5011	649.5000 Rev D	Deflector : Various STC's (Outsource process- Anodize per QSI017 4.1.10.1) Issue P/O to ATG: _____ AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N Certification of Conformity is required	Firmed -	-	9/10/20	8 pcs	0 pcs	8 pcs	\$12.14/pcs	\$97.12

SEP 10 2020



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Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB047021



Items												
Line Item	Job	Part	Drawing	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
3	212429	649.5214	649.5200 Rev C	Bracket Issue P/O to ATG: AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N	Firmed	-	9/10/20	10 pcs	0 pcs	10 pcs	\$10.64/pcs	\$106.40
4	212435	649.4813	649.4800 Rev E	Shim : Various STC's Outsource4 (Outsource process-Anodize per QSI017 4.1.10.1) ISSUE P/O: As Per MPP-172 Section 2.1, Hard Anodize IAW MIL-A- 8625, Type III, Class 2, Color Black As Per MPP-172 Section 4.2 Prime IAW MIL-P- 23377J Type1 Class N	Firmed	-	9/10/20	10 pcs	0 pcs	10 pcs	\$7.89/pcs	\$78.90
5	212182	647.1512	647.1500 Rev E	Breakaway Tip : Various STC's (Outsource process- Anodize per QSI017 4.1.10.1) Issue P/O to ATG : 1- Black Anodize as per Dwg 647.1500 2- PRIME AS PER DWG, SEE NOTE #2 Certification of Conformity is required	Firmed	-	9/10/20	4 pcs	0 pcs	4 pcs	\$12.34/pcs	\$49.36



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PURCHASE ORDER

POHB047021



Items

Line Item	Job	Part	Drawing	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
6	212475	649.4811	649.4800 Rev E	Clip : Various STC's Issue P/O: AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N Certification of Conformity is required	Firmed	-	9/10/20	4 pcs	0 pcs	4 pcs	\$11.24/pcs	\$44.96
Grand Total:												\$572.34

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Please ensure to send the related invoice to hby_ap@dartaero.com.

Plex 9/9/20 4:41 PM Dart.Guerin.Kimberley



A.T.G. Industries Inc.
760 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 920788

Date: 09-Sep-20

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Kimberley Guerin
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		ATG Delivery	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
40 ea	Part: D1038-58B Avionics Fastener Rail Black Anodize per MIL-A-8625F, Type II, Class2, .0004-.0010" (.4 - 1 mils). Job: 28083 PO: POHB047021	Rev: B	Line: 1
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>SEP 09 2020</u> Certified Signature: <u></u> Receiver Signature: <u></u> A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt. RECEIVED SEP 09 2020 DART AEROSPACE LTD. Made in Canada.			